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☐ 1. Document ID: US 20050221466 A1

L1: Entry 1 of 10

File: PGPB

Oct 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050221466

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050221466 A1

TITLE: Alanine 2,3,aminomutase

PUBLICATION-DATE: October 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Liao, Hans H.	Eden Prairie	MN	US
Gokarn, Ravi R.	Minneapolis	MN	US
Gort, Steven J.	Brooklyn Center	MN	US
Jessen, Holly J.	Chanhassen	MN	US
Selifonova, Olga	Plymouth	MN	US

US-CL-CURRENT: [435/252.3](#); [435/254.2](#), [435/325](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20030113882 A1

L1: Entry 2 of 10

File: PGPB

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20030113882

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030113882 A1

TITLE: Methods for the preparation of beta-amino acids

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Frey, Perry A.	Madison	WI	US
Ruzicka, Frank J.	Lodi	WI	US

US-CL-CURRENT: [435/106](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: WO 2006047589 A2

L1: Entry 3 of 10

File: EPAB

May 4, 2006

PUB-NO: WO2006047589A2

DOCUMENT-IDENTIFIER: WO 2006047589 A2

TITLE: IMPROVED ALANINE 2,3-AMINOMUTASES AND RELATED POLYNUCLEOTIDES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: WO 2006022664 A2

L1: Entry 4 of 10

File: EPAB

Mar 2, 2006

PUB-NO: WO2006022664A2

DOCUMENT-IDENTIFIER: WO 2006022664 A2

TITLE: ALANINE 2, 3 AMINOMUTASES

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: EP 1575881 A2

L1: Entry 5 of 10

File: EPAB

Sep 21, 2005

PUB-NO: EP001575881A2

DOCUMENT-IDENTIFIER: EP 1575881 A2

TITLE: ALANINE 2,3- AMINOMUTASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: WO 3062173 A2

L1: Entry 6 of 10

File: EPAB

Jul 31, 2003

PUB-NO: WO003062173A2

DOCUMENT-IDENTIFIER: WO 3062173 A2

TITLE: ALANINE 2,3- AMINOMUTASE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	--------

☐ 7. Document ID: WO 2006047589 A2

L1: Entry 7 of 10

File: DWPI

May 4, 2006

DERWENT-ACC-NO: 2006-333028

DERWENT-WEEK: 200634

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TITLE: Polypeptides having alanine 2,3-aminomutase activity, useful in production of pantothenic acid or 3-hydroxypropionic acid for use in chemical synthesis reactions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 8. Document ID: WO 2006022664 A2

L1: Entry 8 of 10

File: DWPI

Mar 2, 2006

DERWENT-ACC-NO: 2006-203925

DERWENT-WEEK: 200621

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TITLE: Novel isolated polypeptide comprising alanine 2,3-aminomutase activity and having mutated lysine 2,3-aminomutase amino acid sequence, useful for making beta alanine from alpha alanine, making 3-HP, 1,3-propanediol, pantothenate and CoA

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 9. Document ID: EP 1706457 A2, WO 2005118719 A2

L1: Entry 9 of 10

File: DWPI

Oct 4, 2006

DERWENT-ACC-NO: 2006-231029

DERWENT-WEEK: 200665

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TITLE: Novel transformed cell comprising beta-alanine/pyruvate aminotransferase activity, useful for producing 3-hydroxypropionic acid 3-HP from beta-alanine, and for producing ester of 3-HP, 1,3-propanediol and polymerized 3-HP

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 10. Document ID: CN 1714146 A, WO 2003062173 A2, AU 2003209293 A1, JP 2005525100 W, MX 2004006894 A1, EP 1575881 A2, US 20050221466 A1, BR 200307010 A

L1: Entry 10 of 10

File: DWPI

Dec 28, 2005

DERWENT-ACC-NO: 2003-646066

DERWENT-WEEK: 200636

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TITLE: New cell, comprising alanine 2,3-aminomutase activity, useful for producing beta-alanine from alpha-alanine, 1,3-propanediol, pantothenate, CoA, HP or 1,3-propanediol

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

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Terms	Documents
ALANINE ADJ3 AMINOMUTASE	10

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NEWS 6 SEP 11 CA/CAPplus enhanced with more pre-1907 records
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truncation
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NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
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has been enhanced and reloaded
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NEWS 19 NOV 10 CA/CAPplus F-Term thesaurus enhanced
NEWS 20 NOV 10 STN Express with Discover! free maintenance release Version
8.01c now available
NEWS 21 NOV 13 CA/CAPplus pre-1967 chemical substance index entries enhanced
with preparation role
NEWS 22 NOV 20 CAS Registry Number crossover limit increased to 300,000 in
additional databases
NEWS 23 NOV 20 CA/CAPplus to MARPAT accession number crossover limit increased
to 50,000
NEWS 24 NOV 20 CA/CAPplus patent kind codes will be updated

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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=> S BETA-ALANINE (5A) (CATAL? OR CONVERT?)
L1 350 BETA-ALANINE (5A) (CATAL? OR CONVERT?)

=> S L1 (5A) (L-ALANINE OR ALPHA-ALANINE)
L2 8 L1 (5A) (L-ALANINE OR ALPHA-ALANINE)

=> DUP REM L2
PROCESSING COMPLETED FOR L2
L3 6 DUP REM L2 (2 DUPLICATES REMOVED)

=> D 1-6

L3 ANSWER 1 OF 6 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
DUPLICATE 1
AN 2006-13722 BIOTECHDS <<LOGINID::20061130>>
TI Polypeptides having alanine 2,3-aminomutase activity, useful in
production of pantothenic acid or 3-hydroxypropionic acid for use in
chemical synthesis reactions;
recombinant enzyme protein production via plasmid expression in host
cell for pantothenic acid production
AU CHATTERJEE R; MITCHELL K W; LOUIE S Y; FOX R J; CHEN M
PA CODEXIS INC
PI WO 2006047589 4 May 2006
AI WO 2005-US38552 25 Oct 2005
PRAI US 2004-622206 25 Oct 2004; US 2004-622206 25 Oct 2004
DT Patent
LA English
OS WPI: 2006-333028 [34]

L3 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:591126 HCAPLUS <<LOGINID::20061130>>

DN 139:144955
TI Nucleic acid and polypeptide sequences for alanine 2,3-aminomutase and their use for production of .beta.-alanine, pantothenate, 3-hydroxypropionic acid, and 1,3-propanediol
IN Liao, Hans H.; Gokarn, Ravi R.; Gort, Steven J.; Jessen, Holly J.; Selifonova, Olga
PA Cargill, Incorporated, USA
SO PCT Int. Appl., 119 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003062173	A2	20030731	WO 2003-US1635	20030117
	WO 2003062173	A3	20050804		
	WO 2003062173	C1	20051103		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2473716	AA	20030731	CA 2003-2473716	20030117
	JP 2005525100	T2	20050825	JP 2003-562058	20030117
	EP 1575881	A2	20050921	EP 2003-707445	20030117
	EP 1575881	A3	20050928		
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	CN 1714146	A	20051228	CN 2003-804939	20030117
	BR 2003007010	A	20060411	BR 2003-7010	20030117
	US 2005221466	A1	20051006	US 2004-502040	20040719
PRAI	US 2002-350727P	P	20020118		
	US 2002-375785P	P	20020425		
	WO 2003-US1635	W	20030117		

L3 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1989:193360 HCAPLUS <<LOGINID::20061130>>
DN 110:193360
TI Ruthenium(III) catalyzed oxidation of amino acids by N-bromosuccinimide in aqueous acetic acid: a kinetic study
AU Reddy, P. G.; Kistayya, T.; Khan, Jaffar Ali; Kandlikar, Sushama
CS Nizam Coll., Osmania Univ., Hyderabad, 500 001, India
SO Zeitschrift fuer Physikalische Chemie (Leipzig) (1988), 269(6), 1253-9
CODEN: ZPCLAH; ISSN: 0323-4479
DT Journal
LA English

L3 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1970:528089 HCAPLUS <<LOGINID::20061130>>
DN 73:128089
TI Neutral amino acid transport in Pseudomonas fluorescens
AU Hechtman, P.; Sriver, Charles R.
CS Res. Inst., Montreal Child. Hosp., Montreal, QC, Can.
SO Journal of Bacteriology (1970), 104(2), 857-63
CODEN: JOBAAY; ISSN: 0021-9193
DT Journal
LA English

L3 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 1958:115373 HCAPLUS <<LOGINID::20061130>>
DN 52:115373
OREF 52:20512b-d
TI Mechanism of transformation of .beta.-alanine in kidney tissue of rats
AU Severin, S. E.; U, Vei-Min
CS M. V. Lomonosov State Univ., Moscow
SO Doklady Akademii Nauk SSSR (1958), 120, 1314-17
CODEN: DANKAS; ISSN: 0002-3264

DT Journal
LA Unavailable

L3 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 1955:64471 HCAPLUS <<LOGINID::20061130>>

DN 49:64471

OREF 49:12291h-i,12292a-f

TI Coenzyme A. IX. Synthesis of pantothenoylcysteine, its 4'-phosphate, and related compounds as possible precursors of the coenzyme

AU Baddiley, J.; Mathias, A. P.

CS Lister Inst. London

SO Journal of the Chemical Society (1954) 2803-12

CODEN: JCSOA9; ISSN: 0368-1769

DT Journal

LA Unavailable

OS CASREACT 49:64471

=> D 3-6 KWIC

L3 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

AB Kinetics of Ru(III) ***catalyzed*** oxidn. of glycine, . ***alpha***
.- ***alanine*** , . ***beta*** .- ***alanine*** , leucine,
phenylglycine, and phenylalanine by N-bromosuccinimide in the presence of
mercuric acetate have been studied in aq. acetic acid medium. . .

L3 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

AB . . . it was therefore possible to demonstrate active transport of this
substrate in the absence of intracellular catabolism. The permease which
catalyzes the uptake of . ***beta*** .- ***alanine*** also
transports L-proline and ***L*** - ***alanine*** . This common
transport system was distinguished from permeases which transport only
L-alanine and only L-proline by competition studies in strain. . .

L3 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

AB Rat kidney tissue homogenate evidently interacts with . ***beta*** .-
alanine so as to ***convert*** it to . ***alpha*** .-
alanine , then to glutamic acid, then anaerobically to NH3.
Pyruvic acid, ketoglutaric acid, and deoxyribonucleic acid are the
apparent factors, resp., . . .

L3 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN

AB . . . gave benzyloxycarbonyl-.beta.-alanyl-DL-.alpha.-alanine, m.
142-3.degree., hydrogenolyzed over PdO to .beta.-alanyl-DL-.alpha.-
alanine, m. 228-30.degree., which with VI in the presence of Me2NH yielded
D-pantothenoyl-DL-. ***alpha*** .- ***alanine*** (Me2NH salt, m.
132.degree.). . ***beta*** .- ***Alanine*** amide acetate, prepd. by
catalytic hydrogenation of PhCH2O2CNHCH2CH2CONH2, gave with VI and
Me2NH D-pantothenamide. H2NCH2CH(OEt)2 and the mixed anhydride from
ClCO2Et and VII gave 2-D-pantothenamidoacetaldehyde. . .

=> S ALANINE 2, 3 AMINOMUTASE

10 FILES SEARCHED...

L4 18 ALANINE 2, 3 AMINOMUTASE

=> DUP REM L4

PROCESSING COMPLETED FOR L4

L5 5 DUP REM L4 (13 DUPLICATES REMOVED)

=> S L5 NOT L3

L6 4 L5 NOT L3

=> D 1-4

L6 ANSWER 1 OF 4 MEDLINE on STN

AN 2005547351 MEDLINE <<LOGINID::20061130>>

DN PubMed ID: 16223264

TI Discovery of enzymatic activity using stable isotope metabolite labeling
and liquid chromatography-mass spectrometry.

AU Dalluge Joseph J; Liao Hans; Gokarn Ravi; Jessen Holly

CS Cargill Scientific Resources Center and Biotechnology Development Center,

Cargill Incorporated, P.O. 5702, Minneapolis, Minnesota 55440-5702, USA..
joseph_dalluge@cargill.com

SO Analytical chemistry, (2005 Oct 15) Vol. 77, No. 20, pp. 6737-40.
Journal code: 0370536. ISSN: 0003-2700.

CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200604
ED Entered STN: 15 Oct 2005
Last Updated on STN: 20 Apr 2006
Entered Medline: 19 Apr 2006

L6 ANSWER 2 OF 4 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AN 2006-09714 BIOTECHDS <<LOGINID::20061130>>
TI Novel transformed cell comprising beta-alanine/pyruvate aminotransferase
activity, useful for producing 3-hydroxypropionic acid 3-HP from
beta-alanine, and for producing ester of 3-HP, 1,3-propanediol and
polymerized 3-HP;
plant engineering and vector expression in cell culture for use in
3-hydroxypropionic acid production
AU LIAO H H; GOKARN R R; GORT S J; JESSEN H J; SELIFONOVA O V
PA CARGILL INC
PI WO 2005118719 15 Dec 2005
AI WO 2004-US40827 6 Dec 2004
PRAI US 2003-527357 4 Dec 2003; US 2003-527357 4 Dec 2003
DT Patent
LA English
OS WPI: 2006-231029 [24]

L6 ANSWER 3 OF 4 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AN 2006-08714 BIOTECHDS <<LOGINID::20061130>>
TI Novel isolated polypeptide comprising ***alanine*** ***2*** ,
3 - ***aminomutase*** activity and having mutated lysine
2,3-aminomutase amino acid sequence, useful for making beta alanine from
alpha alanine, making 3-HP, 1,3-propanediol, pantothenate and CoA;
involving vector-mediated gene transfer and expression in
Lactobacillus, Lactococcus, Bacillus, Escherichia cell, plant, yeast
and fungus cell for recombinant cell preparation for beta-alanine and
alpha-alanine preparation
AU JESSEN H J; GOKARN R R; GORT S J; SELIFONOVA O V; LIAO H H; BRAZEAU B J
PA CARGILL INC
PI WO 2006022664 2 Mar 2006
AI WO 2004-US24686 30 Jul 2004
PRAI WO 2004-US24686 30 Jul 2004; WO 2004-US24686 30 Jul 2004
DT Patent
LA English
OS WPI: 2006-203925 [21]

L6 ANSWER 4 OF 4 BIOTECHDS COPYRIGHT 2006 THE THOMSON CORP. on STN
AN 2003-23677 BIOTECHDS <<LOGINID::20061130>>
TI New cell, comprising ***alanine*** ***2*** , ***3*** -
aminomutase activity, useful for producing beta-alanine from
alpha-alanine, 1,3-propanediol, pantothenate, CoA, HP or 1,3-propanediol;
vector-mediated Bacillus subtilis, Deinococcus radiodurans,
Clostridium subterminale, Porphyromonas gingivalis or Escherichia
coli, ***alanine*** - ***2*** , ***3*** - ***aminomutase*** ,
alpha-ketopantoate-hydroxymethyltransferase, alpha-ketopantoate-
reductase and pantothenate-synthase gene transfer and expression in
Escherichia coli, Bacillus licheniformis, yeast and plant host cell,
transgenic animal and transgenic plant for beta-alanine,
1,3-propanediol, pantothenate, coenzyme-A and hydroxypropionic acid
production
AU LIAO H H; GOKARN R R; GORT S J; JESSEN H J; SELIFONOVA O
PA CARGILL INC
PI WO 2003062173 31 Jul 2003
AI WO 2003-US1635 17 Jan 2003
PRAI US 2002-375785 25 Apr 2002; US 2002-350727 18 Jan 2002
DT Patent
LA English
OS WPI: 2003-646066 [61]

=> DIS HIS

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FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
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L1 350 S BETA-ALANINE (5A) (CATAL? OR CONVERT?)
L2 8 S L1 (5A) (L-ALANINE OR ALPHA-ALANINE)
L3 6 DUP REM L2 (2 DUPLICATES REMOVED)
L4 18 S ALANINE 2, 3 AMINOMUTASE
L5 5 DUP REM L4 (13 DUPLICATES REMOVED)
L6 4 S L5 NOT L3

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